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L1 ANSWER 1 OF 1 WPIDS (C) 2003 THOMSON DERWENT
ACCESSION NUMBER: 1991-227681 [31] WPIDS
DOC. NO. CPI: C1991-099176
TITLE: New DNA and the DNA containing plasmid - which can function
as promoter in corynebacterium cells.
DERWENT CLASS: B04 D16
PATENT ASSIGNEE(S): (MITP) MITSUBISHI PETROCHEMICAL CO LTD
COUNTRY COUNT: 1
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC
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APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
JP 03147792	A	JP 1989-282873	19891101

PRIORITY APPLN. INFO: JP 1989-282873 19891101
INT. PATENT CLASSIF.: C12N001-21; C12N015-77; C12R001-13
BASIC ABSTRACT:

JP 03147792 A UPAB: 19930928

The claimed DNA fragment (c), which functions as a promoter in Corynebacterium cells, has base sequence (a) shown as TAGACA, and (b) a base sequence (b) shown as TATAAT at 15-20 base sequence downstream of base sequence (a). Also claimed is an autonomously proliferable plasmid in Corynebacterium cells which contains the DNA fragment (c) and an expression gene containing a DNA fragment (d) directly connected downstream

of

DNA fragment (c).

The plasmid is derived from plasmid pBY503 which is autonomously proliferable in Corynebacterium cells. Gene (d) is that which codes enzyme, protein or peptide.

USE/ADVANTAGE - By creating DNA fragment (c) and integrating the DNA fragment (c) to a promoter detecting vector plasmid, then by introducing the vector plasmid in Corynebacterium cells, the DNA fragment (c) can function as a promoter in Corynebacterium cells.

In an example, as basic plasmid, pHSG298 was used. It was cleaved by HindIII and ligated with DNA fragment (d). Next, this was cleaved by KpnI and ligated with DNA fragment derived from pBY503 plasmid to create a promoter detecting vector plasmid. This was cleaved by BamHI, and synthetic DNA fragment (c) was ligated to construct this invention's plasmid. As an introducing host Brevibacterium flavum MJ-233 derived strain was used. Plasmid pBY502 was deleted by repeating the subculture.

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FILE SEGMENT: CPI
FIELD AVAILABILITY: AB
MANUAL CODES: CPI: B04-B04A1; D05-C03; D05-C13; D05-H12